

# KENWOOD

**KDC-S3007  
KDC-S2007**

CD-RECEIVER

## **INSTRUCTION MANUAL**

AMPLI-TUNER-LECTEUR DE CD

## **MODE D'EMPLOI**

REPRODUCTOR DE DISCOS COMPACTOS RECEPTOR DE FM/AM

## **MANUAL DE INSTRUCCIONES**

KENWOOD CORPORATION

**Take the time to read through this instruction manual.**

**Familiarity with installation and operation procedures will help you obtain the best performance from your new cassette-receiver.**

### **For your records**

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KDC-S3007/S2007 Serial number \_\_\_\_\_

©B64-0860-00 (KW)



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## ⚠ Warning



### Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion — and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

#### To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

#### Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

## We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

### Decible Level   Example

30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

### THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



## ⚠ Warning

### ⚠ CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION  
2967-3, ISHIKAWA-CHO,  
HACHIOJI-SHI  
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO DHHS REGULATIONS NO.21 CFR 1040. 10, CHAPTER I, SUBCHAPTER J.

Location : Bottom Panel

### FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

### NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### NOTE

This Class B digital apparatus meets all requirements of the Canadian interference-Causing Equipment Regulations.

## Safety precautions

### WARNING

#### ***To prevent injury or fire, take the following precautions:***

- Insert the unit all the way in until it is fully locked in place. Otherwise it may fall out of place when jolted.
- When extending the ignition, battery, or ground wires, make sure to use automotive-grade wires or other wires with a 0.75mm or more to prevent wire deterioration and damage to the wire coating.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Be careful not to drop the unit or subject it to strong shock.  
The unit may break or crack because it contains glass parts.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.  
If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

### CAUTION

#### ***To prevent damage to the machine, take the following precautions:***

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

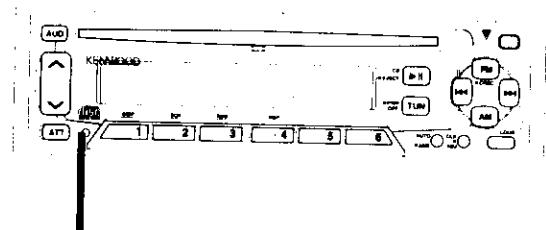
#### **For KDC-S3007**

- Do not set the removed faceplate or the faceplate case in areas exposed to direct sunlight, excessive heat, or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.

## Safety precautions

### NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit doesn't seem to be working right, try pressing the reset button first. If that does not fix the problem, consult your Kenwood dealer.



Reset button

### Cleaning the Unit

If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

### CAUTION

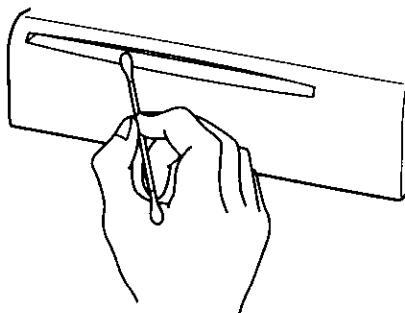
Do not wipe the panel with a hard cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or cause the indicator letters to peel off.

### Cleaning the Faceplate Terminals (For KDC-S3007)

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

### Cleaning the CD Slot

As dust tends to accumulate in the CD slot, clean it every once in a while. Your CDs can get scratched if you put them in a dusty CD slot.



### Lens Fogging

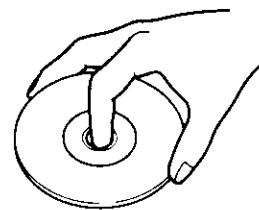
Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, CDs may be impossible to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.

## Handling Compact discs

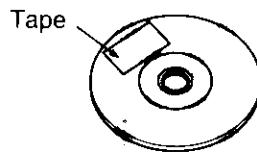
**Playing a CD that is dirty, scratched or warped can cause the sound to skip and the unit to operate incorrectly, resulting in worsened sound quality. Take the following precautions to prevent your CDs from getting scratched or damaged.**

### Handling CDs

- Do not touch the recorded side of the CD (the side opposite the label) when holding it.



- Do not stick tape on either side of the CD.

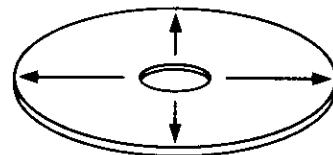


### Storing CDs

- Do not store CDs in areas exposed to direct sunlight (such as a car seat or the dashboard) or other hot places.
- Remove CDs from the unit when not listening to them for a while, and put them back in their cases. Do not pile up CDs that are removed from their cases or prop them against something.

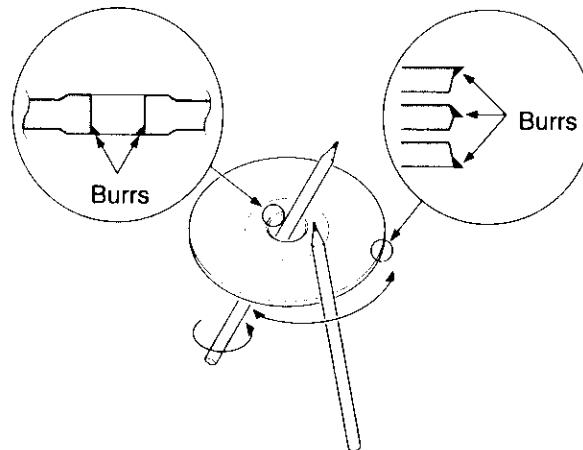
### Cleaning CDs

If a CD has gotten dirty, wipe it off gently using a commercially available cleaning cloth or a soft cotton cloth, starting from the center of the disc and moving outward. Do not clean CDs with conventional record cleaners, anti-static formulas, or chemicals such as paint thinner or benzene.



### Checking New CDs for Burrs

When playing a new CD for the first time, check that there are not any burrs stuck to the perimeter of the disc or in the central hole. CDs with burrs stuck on them may not load properly or may skip while playing. Remove burrs using a ballpoint pen or a similar utensil.

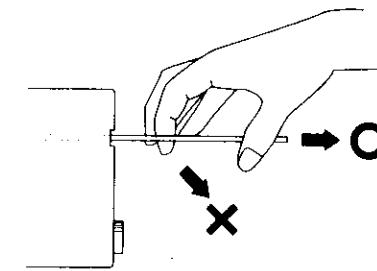


### Do Not Load CD Accessories

Do not use commercially available CD accessories that can be loaded into the CD slot, such as stabilizers, protective sheets, or CD cleaning discs, since they can cause the unit to malfunction.

### Removing the CD

Only remove the CD from the machine in a horizontal direction, holding it flat. You may damage the surface of the CD if you try pulling it down as it ejects.



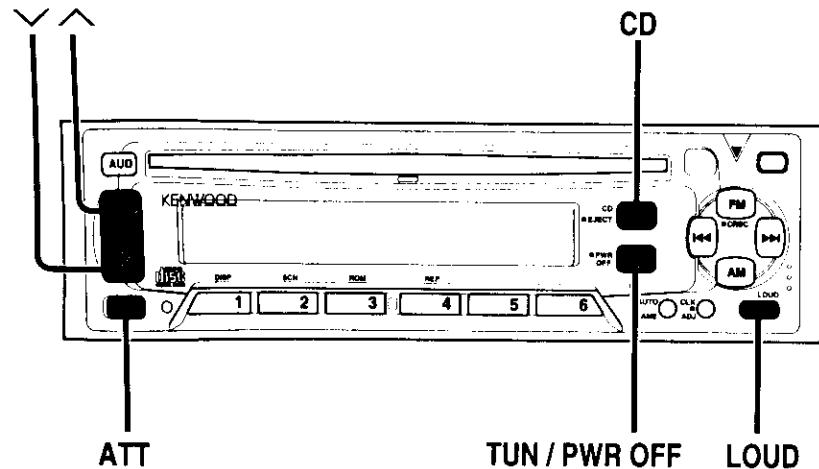
### CAUTION

#### Do Not Load 3-in. CDs in the CD slot

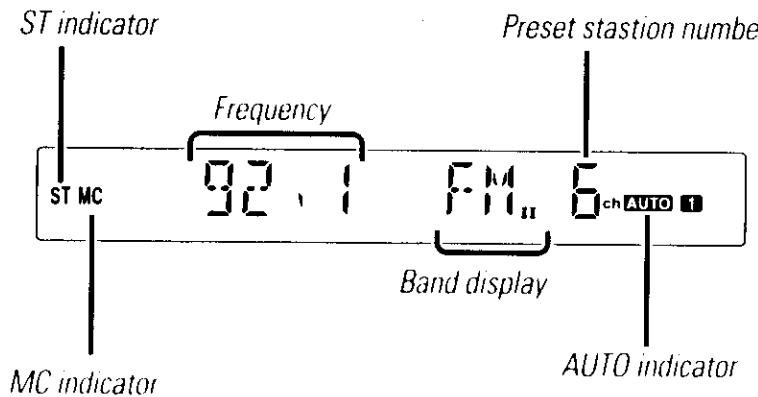
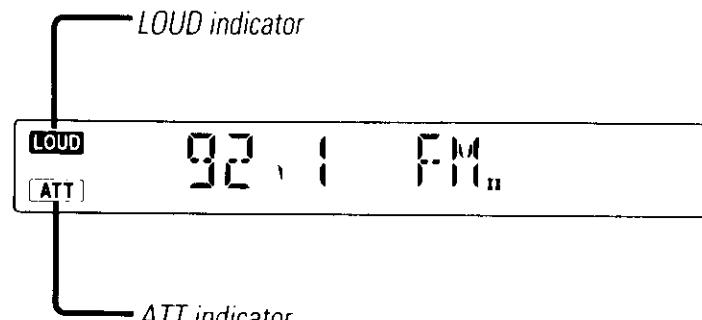
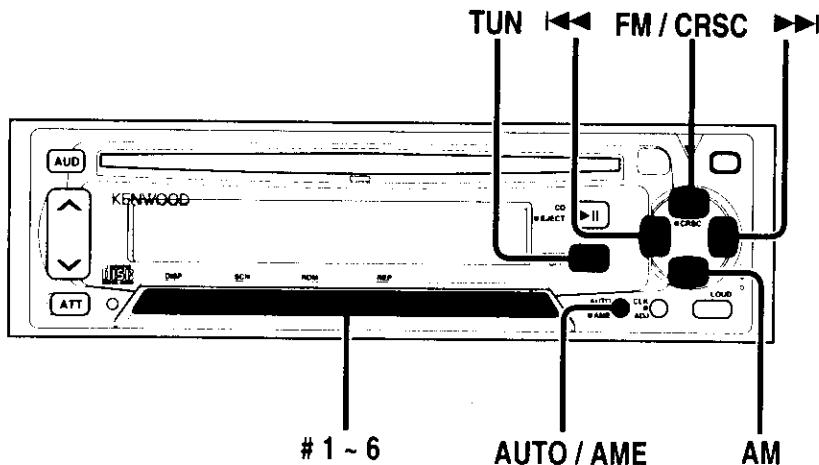
If you try to load a 3 in. CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

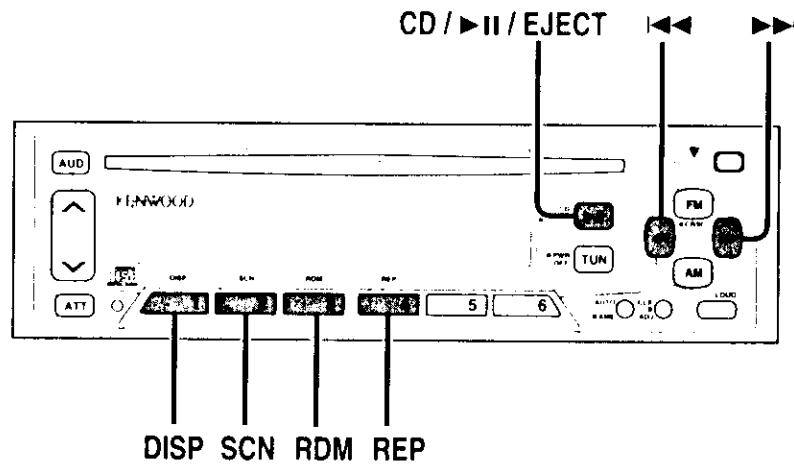
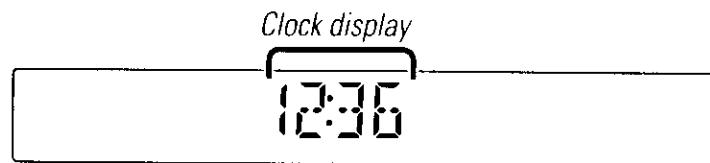
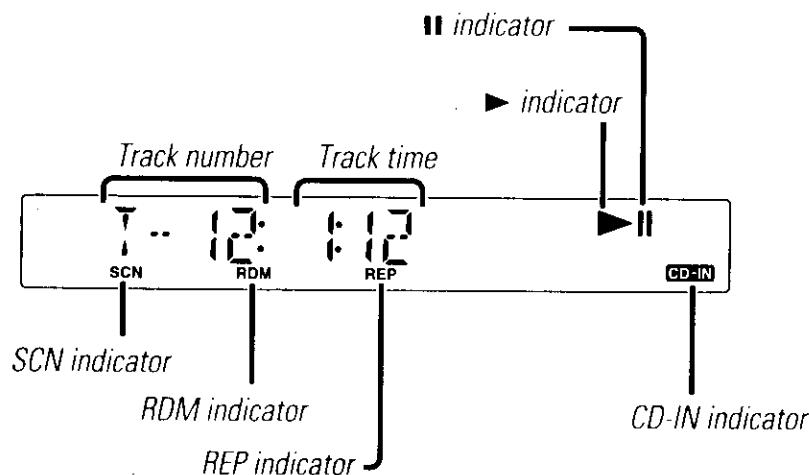
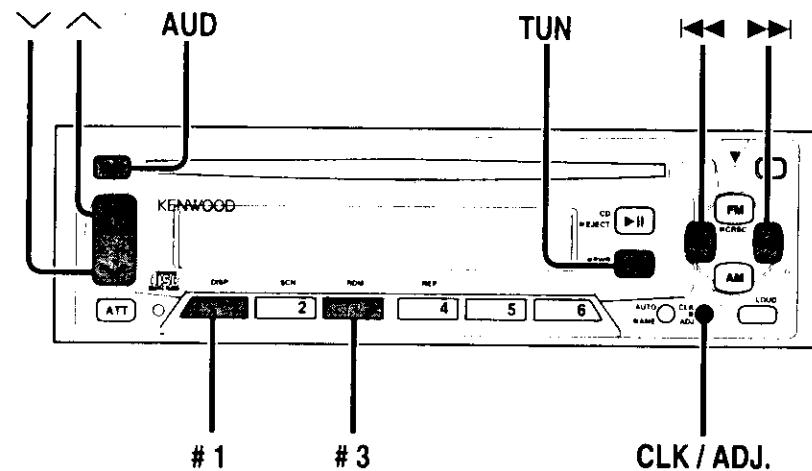
## Buttons and Display

### Basic operations



### Tuner features



**CD player features****Other features**

## Basic operations (See page 8)

### Power

#### Turning on the power:

Press either the CD or TUN button.

#### NOTE

Turn the power on before completing the following procedures.

#### Turning off the power:

Press the PWR OFF button for at least one second.

### Volume

#### Increasing Volume:

Press the  $\wedge$  button to turn up the volume.

#### Decreasing Volume:

Press the  $\vee$  button to turn down the volume.

### Attenuator

#### This function allows you to turn down the volume quickly.

#### Turning Attenuator On/Off:

Press the ATT button to switch the attenuator on and off.

When the attenuator is on, the ATT indicator blinks.

When the attenuator is off, the volume returns to the original level.

#### NOTE

Turning the volume all the way down deactivates the attenuator function.

### Loudness

#### This function amplifies low and high tones when the volume is turned down.

#### The LOUD indicator lights up when the loudness function is on.

#### Turning Loudness On/Off:

Press the LOUD button to switch the loudness on and off.

## Tuner features (See page 8)

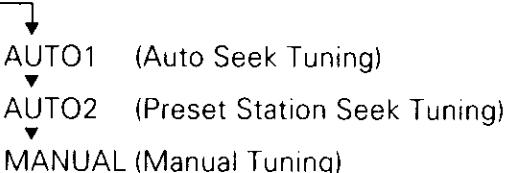
### Tuning

You can choose from three tuning modes: auto seek, preset station seek, and manual. The "Auto1" indicator lights up when auto seek tuning is selected, and the "Auto2" indicator lights when preset station seek tuning is selected.

#### Selecting Tuning Mode:

Press the AUTO button.

Each time you press the AUTO button, the mode switches as follows.



#### Tuning:

1 Press the TUN button to turn the radio on.

2 Press either the FM or AM button to select the band. Each time you press the FM button, the band switches between the FM1, FM2 and FM3 (which are used for groups of preset stations). Press the AM button to select the AM band.

#### 3 • Auto Seek Tuning

Press the  $\blacktriangleright$  button to seek higher frequencies.

Press the  $\blacktriangleleft$  button to seek lower frequencies.

#### • Preset station seek tuning

Press the  $\blacktriangleright$  button to move to the next preset station (i.e., the one with the next highest number), and the  $\blacktriangleleft$  button to move to the last preset station (i.e., the one with the next lowest number).

#### • Manual Tuning

Press the  $\blacktriangleright$  button to increase the frequency by one step.

Press the  $\blacktriangleleft$  button to decrease the frequency by one step.

#### NOTE

The ST indicator lights up when stereo broadcasts are being received.

## Station Preset Memory

Store the frequency of a station. You can then recall that station with a single touch of a button.

- 1 Select the band/station that you want to have stored.
- 2 Press the button (#1-6) that you want to use for the station, for at least two seconds.

The button number blinks once in the display to indicate that the data has been stored.

### Recalling a Preset Station:

Press the preset station button (#1-6) for the desired station. The number of the recalled station is displayed.

#### NOTE

You can store six stations in each of the FM1, FM2, FM3, and AM bands.

## Auto Memory Entry

You can automatically store all the receivable frequencies in the band currently being listened to, and then recall them with the touch of a button later. This function is especially useful when you are travelling and do not know what stations are available. Up to six frequencies can be stored this way.

- 1 Select the band for which you want to store stations.
- 2 Press the AME button for at least two seconds to start auto memory entry.

The numbers of the preset station buttons are shown in order. When all the stations in a certain band are stored in the preset memory, the auto memory entry stops. The tuner then plays the last station received.

### Recalling a Preset Station:

Press the preset station button (#1-6) for the desired station. The number of the recalled station is displayed.

## Clean Reception System Circuit (CRSC)

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the FM station. The MC indicator lights up when CRSC is off.

### Turning CRSC On/Off:

Press the CRSC button for at least one second to turn the function on and off.

#### NOTE

Strong electrical fields (such as from power lines) may cause unstable sound quality when CRSC is turned on. In such a situation, turn it off.

## CD player features (See page 9)

### Playing CDs

#### Playing CDs:

If no CDs are inserted, insert one in the slot with the label facing up.  
If a CD is already inserted, press the CD button.  
The CD-IN indicator lights up when a CD has been inserted.  
The ▶ indicator lights up when a CD is being played.

#### Pausing and Restarting CD Play:

Press the ▶II button to make the disc pause.  
The II indicator lights up.  
Press the same button again to start play again.

#### Stopping and Ejecting CDs:

Press the EJECT button for at least one second.  
The CD stops playing and ejects from the slot.

#### CAUTION

- Do not attempt to insert a CD into the slot if another one is already there.
- The unit can only play 5 in. CDs. If you insert a 3 in. CD, it will get stuck inside and can cause the unit to malfunction.

#### NOTE

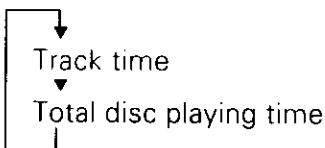
When you load a CD and eject it right away, the next time you try to insert the CD may not load. In such a situation, take the CD out for a moment and then reinsert it.

### Switching Display for CDs

#### Switch the display that appears while discs are playing.

#### Switching Display for CDs:

Each time you press DISP button, the display during CD play switches as follows:



### Fast Forwarding and Reversing Disc Play

#### Fast Forwarding Disc Play:

Hold down on the ►►I button.  
Release your finger to play the disc at that point.

#### Reversing Disc Play:

Hold down on the I◀◀ button.  
Release your finger to play the disc at the point.

### Track Search

Search forward or backward through the tracks on the disc until you reach the one that you want to listen to.

#### Making a Reverse Track Search:

Press the I◀◀ button to display the desired track number.  
Press once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth.

Play starts at the beginning of the displayed track number.

#### Making a Forward Track Search:

Press the ►►I button to display the desired track number.  
Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.

Play starts at the beginning of the displayed track number.

### Track Repeat

Repeat playing the track currently being listened to.

#### Turning Repeat Play On/Off:

Press the REP button to switch repeat play on and off.  
The REP indicator lights up when repeat play is turned on.  
The track number currently being heard blinks in the display.

#### NOTE

Repeat play is canceled when you stop playing the disc.

## Track Scan

Successively play the beginning of each track on a disc until you find the track that you want to listen to.

### Turning Track Scan On/Off:

Press the SCN button to switch track scan on and off. The SCN indicator lights up when track scan is turned on. The first 10 seconds of each track will be played, in order. The track number currently being heard blinks in the display.

### Stopping to Listen to the Track Being Scanned:

Press the CD or SCN button again to stop the scan and keep on listening to a track normally.

#### NOTE

- Track scan is canceled when you stop playing a disc.
- Track scan only scans each track on a disc once.

## Random Play

Play all the tracks on the current disc in random order.

- 1 Press the RDM button to switch random play on and off. The RDM indicator lights up when random play is turned on. The track number will change over and over in the display as the next track is being selected. When the track has been selected, play will begin. The selected track number blinks in the display as it is being played.
- 2 To change the track being heard, press the **▶▶** button. Another track will be selected and played.

#### NOTE

Random play is canceled when you stop playing a disc.

## Other features (See page 9)

### Audio Control Setting

Adjust various parameters of sound quality.

- 1 Press the AUD button to enter the control mode. Each time the AUD button is pressed, the adjustment mode display changes as follows:  
**▶** Bass **▶** Treble **▶** Balance **▶** Fader **▶** Volume **▶**

If you do not move to step 2 in five seconds, the unit will switch back to the volume adjustment mode (that is the normal mode).

#### NOTE Source tone memory

Each source (CD, FM and AM) has its own memory in which to store the bass and treble tone settings. The settings made for a particular source are recalled automatically whenever you use that source (for example, FM mode uses the tone settings made for FM, AM for AM, etc.).

- 2 Press the **▽/△** buttons to adjust the mode shown in the display. Use the following table as a guide for adjusting the settings in each mode.

Adjustment mode (Display)	Operation of Audio control button	
	<b>▽</b> button	<b>△</b> button
Bass ("BAS")	Bass decreased.	Bass increased.
Treble ("TRE")	Treble decreased.	Treble increased.
Balance ("BAL")	Left channel emphasized.	Right channel emphasized.
Fader ("FAD")	Rear channel increased.	Front channel increased.

## Other features (See page 9)

### Clock Display

Display the time.

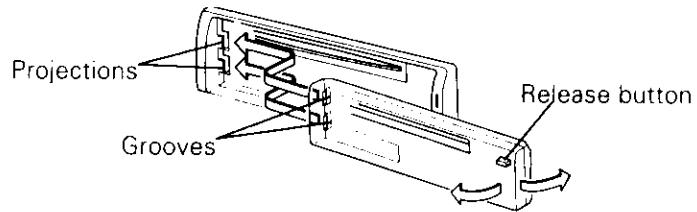
#### Switching to Time Display:

Keep pressing the CLK button until the clock is displayed.

### Function of the KDC-S3007

### Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you, helping to deter theft.



#### Removing the Faceplate:

Press the release button.

The faceplate is unlocked, allowing you to detach it.

#### NOTE

- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case while detached.



- Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

#### Reattaching the Faceplate:

- Align the projections on the unit with the grooves on the faceplate.
- Push the faceplate in until it clicks. The faceplate is locked in place, allowing you to use the unit.

### Function of the KDC-S3007

### Disabled System Indicator (DSI)

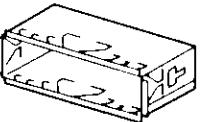
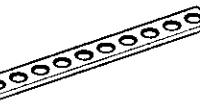
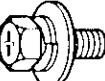
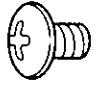
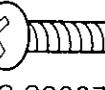
A red indicator will blink on the unit after the faceplate is removed, warning potential thieves. The factory default for this function is ON.

#### Turning Disabled System Indicator On/Off:

- Turn the power of the unit off.
- While pressing buttons #1 and #3 at the same time, press the TUN button.

Repeat steps 1 and 2 above to turn DSI back on.

## Accessories

	External view	Number of items
①		1
②		1
③		1
④		2
⑤		1
⑥		4
⑦		4
⑧		1
KDC-S3007 only		

## Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the  $\ominus$  battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the speaker wires of the wiring harness.
4. Connect the wiring harness wires in the following order: ground, battery, ignition.
5. Connect the wiring harness connector to the unit.
6. Install the unit in your car.
7. Reconnect the  $\ominus$  battery.
8. Press the reset button.

### CAUTION

- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected wires or terminals touch metal on the car or anything else conducting electricity. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the  $\ominus$  wires or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Insulate unconnected wires with vinyl tape or other similar material.

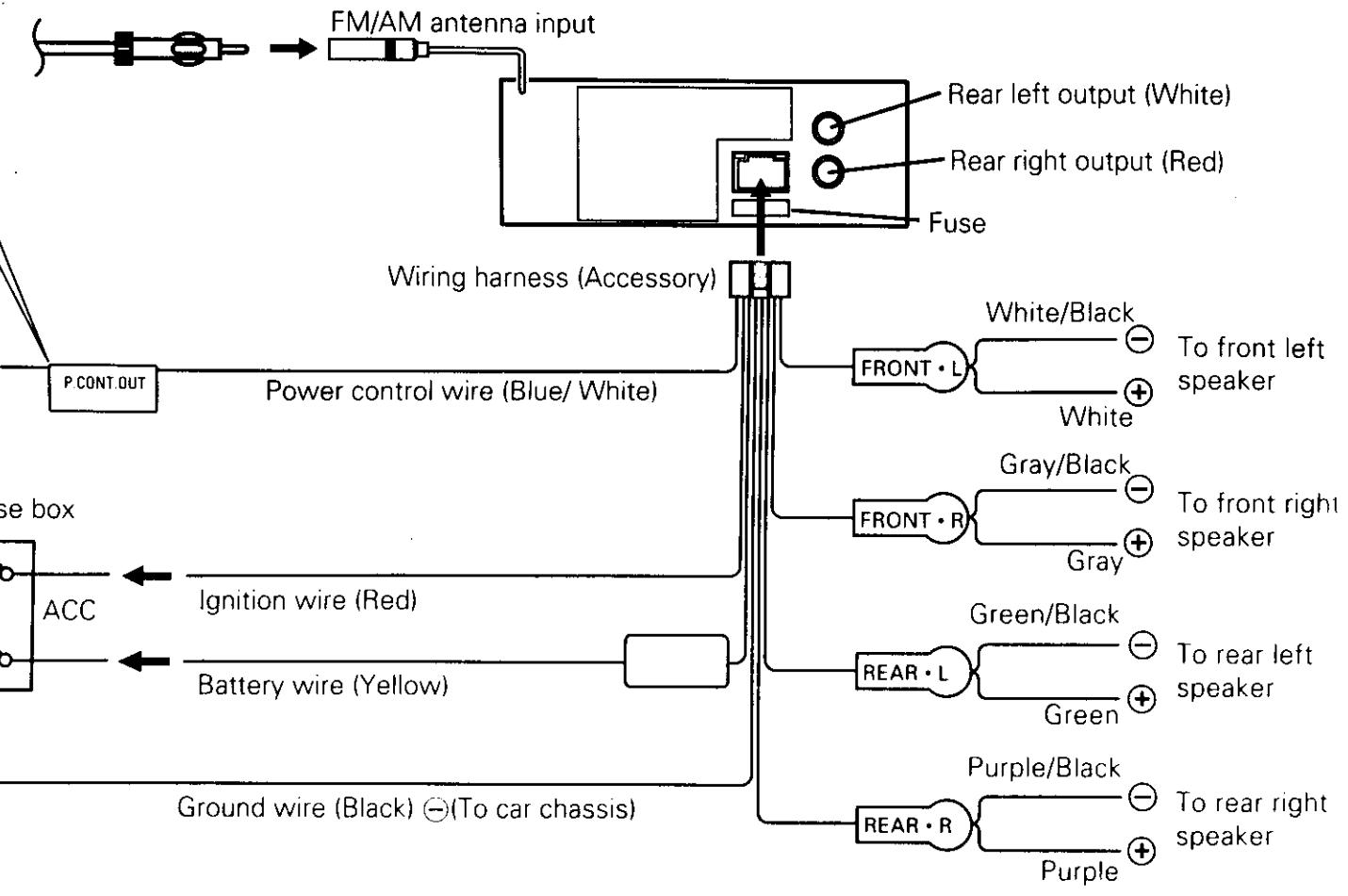
### CAUTION

Do not use any accessories other than those provided with your unit. If you use other accessories, you may damage the unit.

## Connecting Wires to Terminals

English

If no connections are made, do not let the wire come out from the tab.



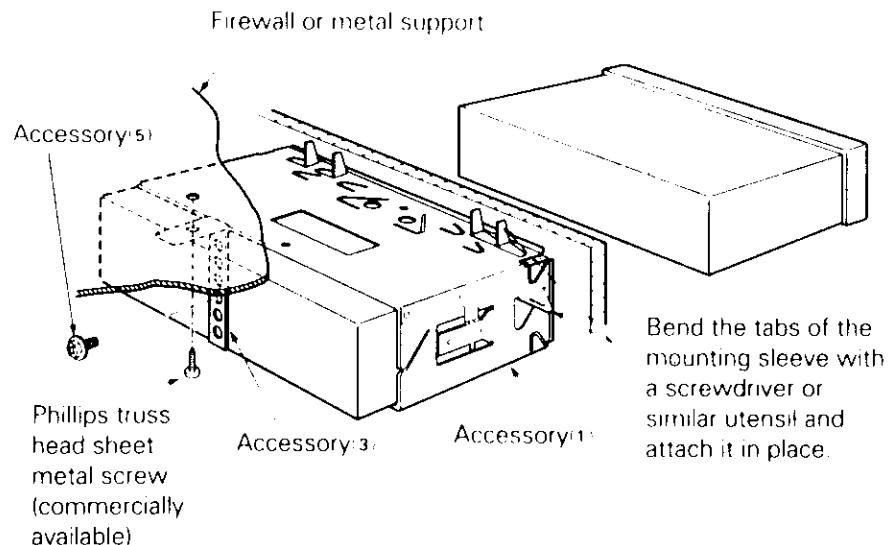
### WARNING

If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

### CAUTION

When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the (+) connector of the left speaker to a front output terminal, do not connect the (-) connector to a rear output terminal.

## ■ Installation

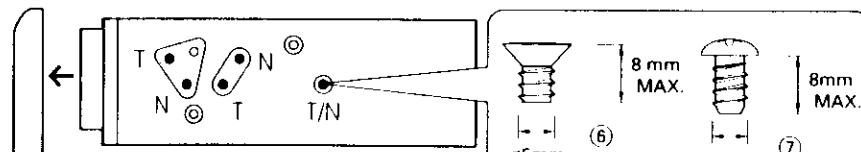


### NOTE

Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (for example, the sound may skip).

## ■ Installing in Japanese-Made Cars

- 1 Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.
- 2 Align the holes in the unit (two locations on each side) with the vehicle mounting bracket and secure the unit with the accessory screws.



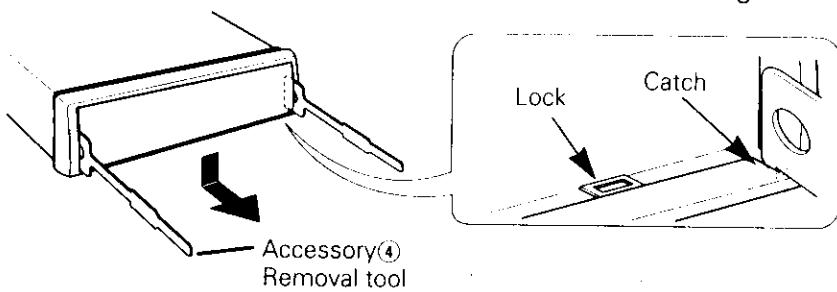
### CAUTION

- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- Damage may occur if a screwdriver or similar tool is used with excessive force during the installations.

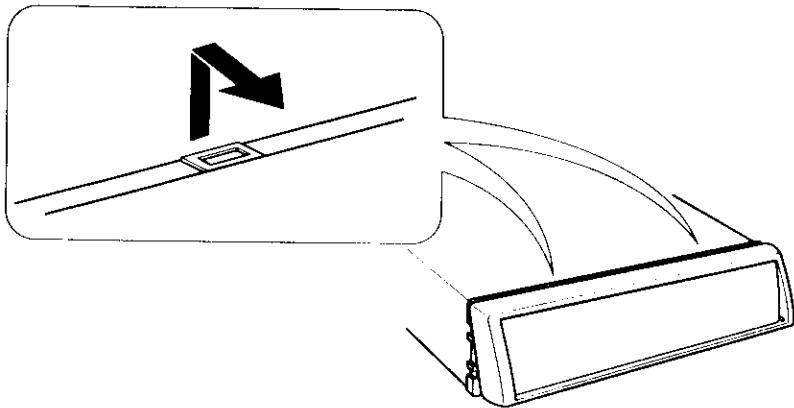
## Installation

### ■ Removing the hard rubber frame

- 1 Engage the catch pins on the removal tool and remove the two locks on the lower level.  
Lower the frame and pull it forward as shown in the figure.



- 2 When the lower level is removed, remove the upper two locations.

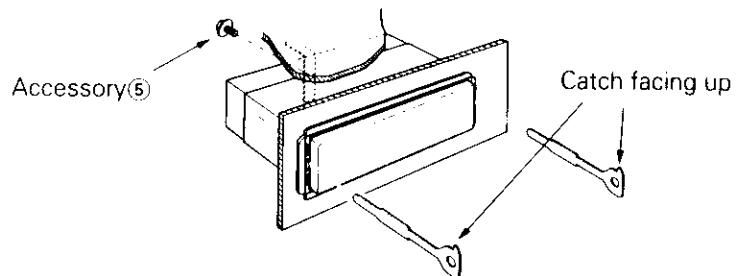


#### NOTE

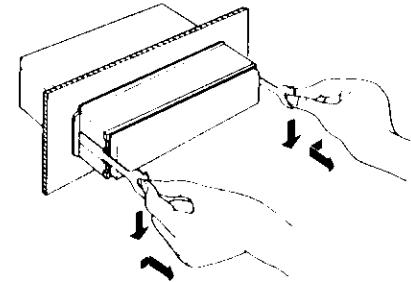
The frame can be removed from the top side in the same manner.

### ■ Removing the Unit

- 1 Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.
- 2 Remove the hex head machine screw with washer (M4x8) on the back panel.
- 3 Insert the two removal tools deeply into the slots on each side, as shown.



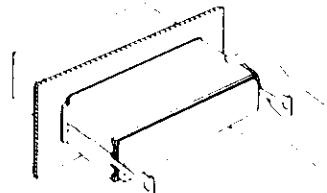
- 4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.



#### CAUTION

Be careful to avoid injury from the catch pins on the removal tool.

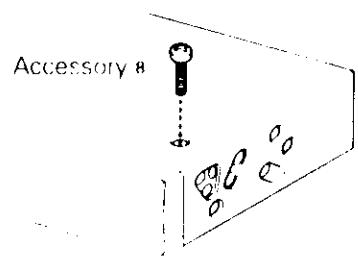
- 5 Pull the unit all the way out with your hands, being careful not to drop it.



### *Function of the KDC-S3007*

#### **■ Screwing the Faceplate on the Unit**

If you want to fasten the faceplate to the main unit so that it does not fall off, insert the provided screw (ø4 x 16mm) in the hole shown below.



#### **▲CAUTION**

Never insert the phillips pan head screw (ø4 x 16mm) in any other screw hole than the one specified. If you insert it in another hole, it will contact and may cause damage to the mechanical parts inside the unit.

**Troubleshooting Guide**

**What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.**

PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the wires, replace the fuse with one with the same rating.
No sound can be heard, or the volume is low.	Attenuator is turned on.	Turn off Attenuator.
	The fader or balance settings are set all the way to one side.	Reset the fader or balance settings.
	The input/output wires or wiring harness are connected incorrectly.	Reconnect the input/output wires or the wiring harness correctly. See the section on "Connecting Wires to Terminals".
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see p. 6).
The sound quality is poor or distorted.	One of the speaker wires is being pinched by a screw in the car.	Check the speaker wiring.
	The speakers are not wired correctly.	Reconnect the speaker wires so that each output terminal is connected to a different speaker.
Radio reception is poor.	The car antenna is not extended.	Pull the antenna out all the way
	The antenna control wire is not connected	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".
The memory is erased when the ignition is turned off.	The battery wire has not been connected to the proper terminal.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".
A CD ejects as soon as it is loaded.	The CD is upside down	Load the CD with the labeled side up
	The CD is quite dirty.	Clean the CD, referring to the section on "Cleaning CDs" (see p. 7)
The sound skips on a CD.	The CD is scratched or dirty.	Clean the CD, referring to the section on "Cleaning CDs" (see p. 7)
A track will not play.	Random play has been selected	Turn off random play

## Specifications

Specifications subject to change without notice.

### FM tuner section

Frequency range (200 kHz space)	87.9 MHz – 107.9 MHz
Usable sensitivity (S/N = 30dB)	9.3 dBf (0.8 $\mu$ V/75 $\Omega$ )
Quieting Sensitivity (S/N = 50dB)	15.2 dBf (1.6 $\mu$ V/75 $\Omega$ )
Frequency response ( $\pm 3.0$ dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	75 dB
Selectivity ( $\pm 400$ kHz)	$\geq 80$ dB
Stereo separation (1 kHz)	40 dB

### AM tuner section

Frequency range (10 kHz space)	530 kHz – 1700 kHz
Usable sensitivity (S/N = 30dB)	28 dB (25 $\mu$ V)

### CD player section

Laser diode	GaAlAs ( $\lambda = 780$ nm)
Digital filter (D/A)	8 Times Over Sampling
D/A Converter	1 Bit
Spindle speed	500 – 200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency response ( $\pm 1$ dB)	10 Hz – 20 kHz
Total harmonic distortion (1 kHz)	0.01 %
Signal to Noise ratio	93 dB (1kHz)
Dynamic range	93 dB
Channel separation	85 dB

### Audio section

Maximum output power	30 W $\times$ 4
Full bandwidth power (at less than 1% THD)	18 W $\times$ 4
Tone action	
Bass:	100 Hz $\pm 10$ dB
Treble:	10 kHz $\pm 10$ dB
Preout level / Load	1800 mV/10 k $\Omega$
Preout impedance	$\leq 600$ $\Omega$

### General

Operating voltage	14.4 V (11 – 16 V allowable)
Current consumption	10.0 A at Rated power
Installation size (W $\times$ H $\times$ D)	182 $\times$ 53 $\times$ 160 mm 7-3/16 $\times$ 2-1/16 $\times$ 6-5/16 in.
Weight	3.1 Lbs (1.4 kg)